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S2 1 PN='JP 59045106'
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DIALOG(R)File 350:Derwent WPIX
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003953115

WPI Acc No: 1984-098659/198416

Crystallised particulate polyester - based on alkylene terephthalate units, where only surfaces area is recrystallised

Patent Assignee: TEIJIN LTD (TEIJ)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
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| JP 59045106 | A | 19840313 | JP 82154512 | A | 19820907 | 198416 B |
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Priority Applications (No Type Date): JP 82154512 A 19820907

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
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| JP 59045106 | A | 4 | | |
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Abstract (Basic): JP 59045106 A

The polyester is produced by treating it with heated steam at 110 deg. C or higher such that 300 is more than or equal to H is more than or equal to A/T (where H is treating time (sec.) with steam; T is temp. (deg. C); A is crystallisation degree of the polyester, i.e. a coefft. relating to the thickness t (mirons)) of crystallised surface layer, and is represented by the following equation: $A = \exp(at+b)$ (where a and b are 0.01-0.05, and 1.0-5.0 respectively)).

Crystallising the surface area of particulate polyester prevents the polyester particulate from adhering to one another on drying or solid-state polymerisation. Pref. thickness of the crystallised surface layer is 20 microns (more pref. 40 microns) or more, but long treating with the steam for thicker crystallisation generates increased water-content of polyester. Temp. of heated steam (satd. or super-heated one) is from 110 deg. C and usually up to 180 deg. C. Pref. treating time is 30 sec. or less.

O/O

Derwent Class: A23

International Patent Class (Additional): B29B-001/00; B29B-003/04